

CLAIMS

What Is Claimed Is:

Claim 1. A banknote moving system, comprising:

a banknote storing unit for being removably positioned within a banknote receiving unit, the banknote storing unit having a storing section and receiving a banknote from the banknote receiving unit;

a mover unit for moving the received banknote into the storing section of the storing unit, the mover unit moving between a standby position and a moved position;

a mover driving unit for operating the mover unit in a reciprocating manner between the standby position and the moved position;

a rotating driving unit for selectively operating the mover driving unit by applying a rotating force in one of a clockwise direction and a counter clockwise direction;

a standby position detecting unit for producing a standby condition signal when the mover is in a standby condition;

a moved position detecting unit for producing a moved position condition signal when the mover unit is in a moved position condition; and

a controlling unit for receiving the standby condition signal and the moved position condition signal and producing a driving direction command signal for selectively operating the rotating driving unit in one of a clockwise direction and a counter clockwise direction.

Claim 2. The banknote moving system of Claim 1, further comprising:

a pivotable lever for operating the mover unit in a reciprocating manner;

a pivoting shaft having a first end and a second end, the pivotable lever being

mounted on the first end of the pivoting shaft; and

a sector gear being mounted on the second end of the pivoting shaft, the sector gear being engaged with the rotating driving unit and driven in one of a clockwise direction and a counter clockwise direction to impart reciprocating motion to the mover unit.

Claim 3. The banknote moving system of Claim 1, further comprising:

a pivotable lever having a sector gear portion, the pivotable lever being pivotable at a shaft located at the surface of the banknote storing unit and operatively connected with the mover unit,

wherein the sector gear engages with the rotating driving unit for reciprocating the mover unit.

Claim 4. A banknote moving system, comprising:

a banknote receiving unit for receiving a banknote;

a banknote storing unit for being removably positioned within the banknote receiving unit, the banknote storing unit having a storing section and receiving the banknote from the banknote receiving unit;

a mover unit for moving the received banknote into the storing section of the storing unit, the mover unit moving between a standby position and a moved position;

a mover driving unit for operating the mover unit in a reciprocating manner between the standby position and the moved position;

a rotating driving unit for selectively operating the mover driving unit by applying a rotating force in one of a clockwise direction and a counter clockwise direction;

a standby position detecting unit for producing a standby condition signal when the mover is in a standby condition;

a moved position detecting unit for producing a moved position condition signal when the mover unit is in a moved position condition; and

a controlling unit for receiving the standby condition signal and the moved position condition signal and producing a driving direction command signal for selectively operating the rotating driving unit in one of a clockwise direction and a counter clockwise direction.

Claim 5. The banknote moving system of Claim 4, the mover unit further comprising:

a left mover disposed adjacent to a moving passageway; and

a right mover disposed adjacent to the moving passageway and opposite from the left mover,

wherein the left mover and the right mover cooperate to move the received banknote along a pushing passageway into the storing section.

Claim 6. The banknote moving system of Claim 4,

wherein the rotating driving unit is an electric motor.

Claim 7. The banknote moving system of Claim 4,

wherein the mover driving unit includes a plurality of gears for conducting rotational force between the rotating driving unit and the mover unit.

Claim 8. The banknote moving system of Claim 4,

wherein the mover unit is disposed within the banknote storing unit, the rotating driving unit is disposed within the banknote receiving unit, and the mover driving unit includes a plurality of mover driving unit gears for conducting rotational force between the rotating driving unit and the mover unit, a predetermined portion of the plurality of mover driving unit gears are disposed within the banknote storing unit.

Claim 9. The banknote moving system of Claim 9,
wherein the plurality of mover driving unit gears conduct rotational force
between the rotating driving unit and the mover unit when the banknote storing unit is
positioned within the banknote receiving unit.

Claim 10. A banknote moving system, comprising:
a banknote receiving unit for receiving a banknote;
a banknote storing unit for being removably positioned within the banknote
receiving unit, the banknote storing unit having a storing section and receiving the banknote
from the banknote receiving unit, the banknote storing unit having a restricted opening
smaller than the width of the banknote for retention of the stored banknote; and
a mover unit disposed inside the banknote storing unit for moving the received
banknote into the storing section of the storing unit, the mover unit for linearly reciprocating
into and out of the restricted opening for moving the banknote into the storing section,
wherein the mover unit is operated by a mover driving unit, a predetermined
portion of which is disposed outside of the banknote storing unit.

Claim 11. The banknote moving system of Claim 10, further comprising:
a frictional transporting unit for receiving the banknote from the banknote
receiving unit and positioning the banknote operatively at the restricted opening prior to
being pushed into the banknote storing unit, the frictional transporting unit permitting a
sliding release of the banknote during the pushing of the banknote into the storing section.